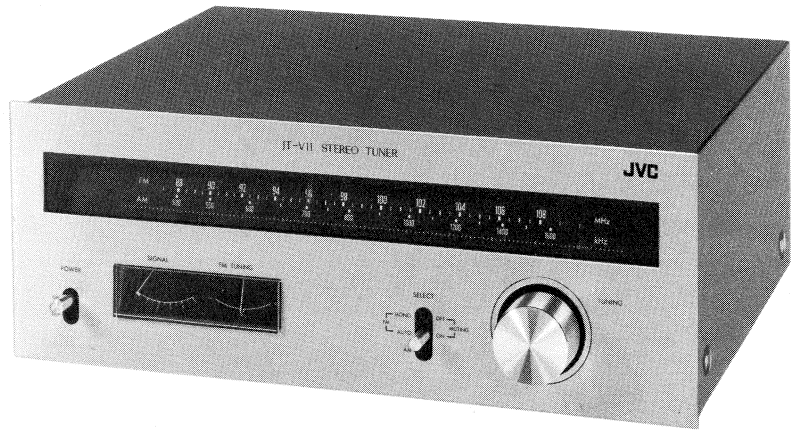
JVC

SERVICE MANUAL

MODEL JT-V11

STEREO TUNER



No. 4409
MAR 1977

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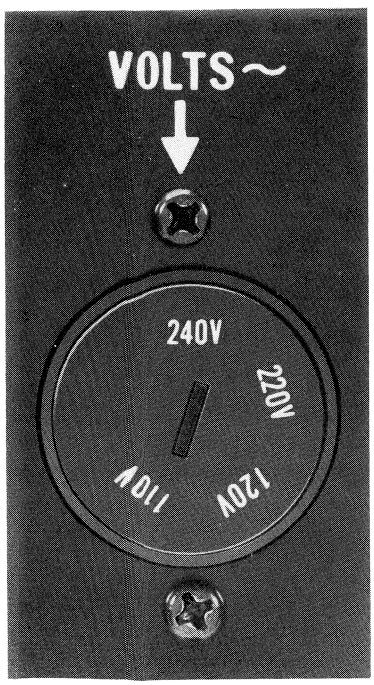


This SET is switchable between line voltages of 110, 120, 220 and 240 volts AC; 50/60 Hz.
The change-over switch is placed on the rear panel of the set.
To select another voltage, turn the change-over switch with a screwdriver or coin.

1. Specifications

FM TUNER SECTION

Tuning range	:	88 MHz – 108 MHz
Usable sensitivity (IHF)	:	1.9 μV
Sensitivity for 50 dB S/N (STEREO)	:	40 μV
Distortion		
MONO	:	0.2 % (1 kHz)
STEREO	:	0.4 % (1 kHz)
Signal-to-noise ratio		
MONO	:	72 dB
STEREO	:	50 dB
Selectivity	:	60 dB
Capture ratio	:	1.0 dB
IF rejection	:	90 dB
Stereo separation	:	100 Hz – 35 dB 1 kHz – 40 dB 10 kHz – 30 dB
Frequency response	:	30 Hz – 12 kHz +0.5 dB, -2.5 dB
Output level (400 Hz, 100 % Mod.)	:	650 mV

AM TUNER SECTION

Tuning range	:	525 kHz – 1605 kHz
Usable sensitivity	:	300 μV/m (Bar antenna) 50 μV (External antenna)
Signal-to-noise ratio	:	50 dB
Distortion	:	0.5 %
Selectivity	:	30 dB

DIMENSIONS : 6''(H) x 15-11/32''(W) x 14-3/32''(D)
(152 mm x 390 mm x 358 mm)

WEIGHT : 11.0 lbs. (5.0 kg)

2. Removal of Top Cover and Bottom Plate

Procedure and Part Numbers

1. Remove 4 screws (Item No. 44) through the both sides of the top cover (Item No. 39) and 1 tapping screws (Item No. 43) through the back sides of the cover (Item No. 39).
2. Remove the top cover.
3. Remove 5 screws (Item No. 47) from bottom plate (Item No. 6) and remove the bottom plate from the chassis.

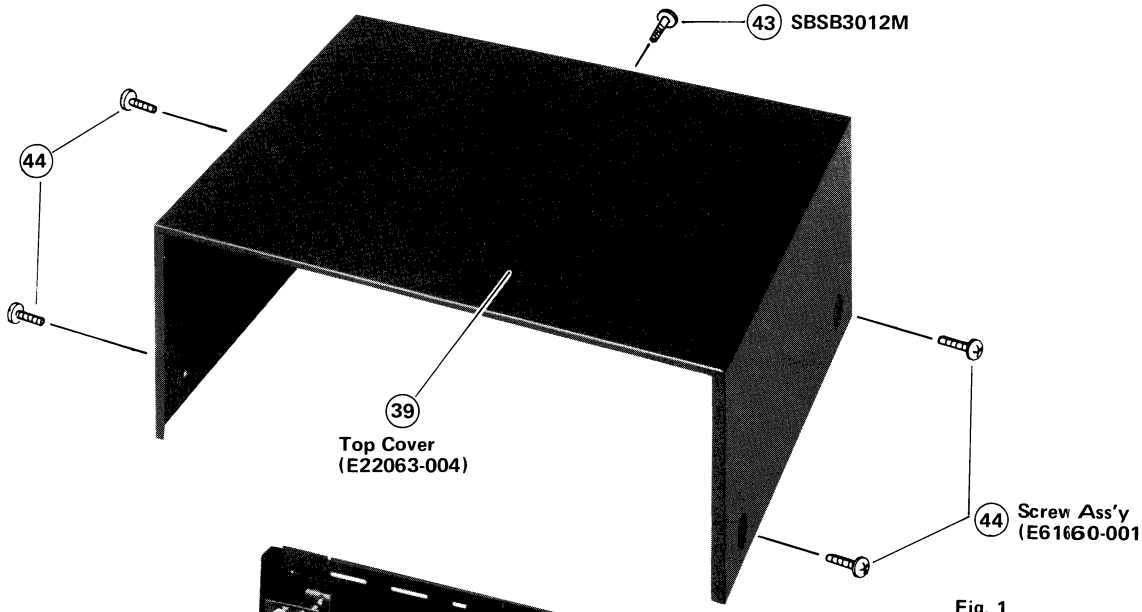


Fig. 1

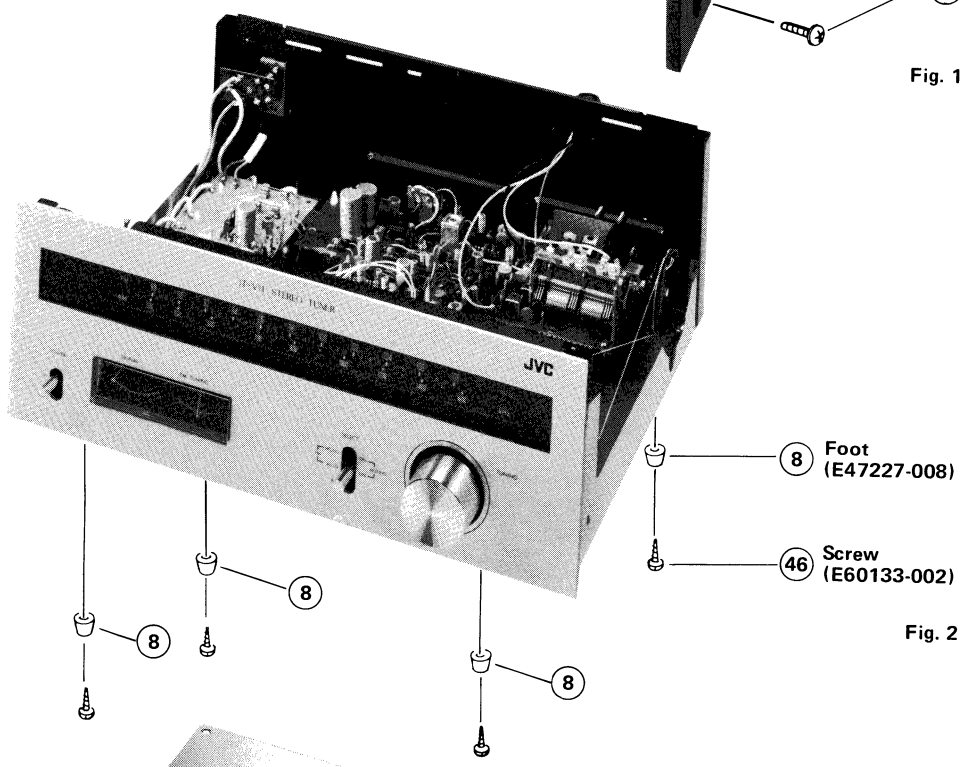


Fig. 2

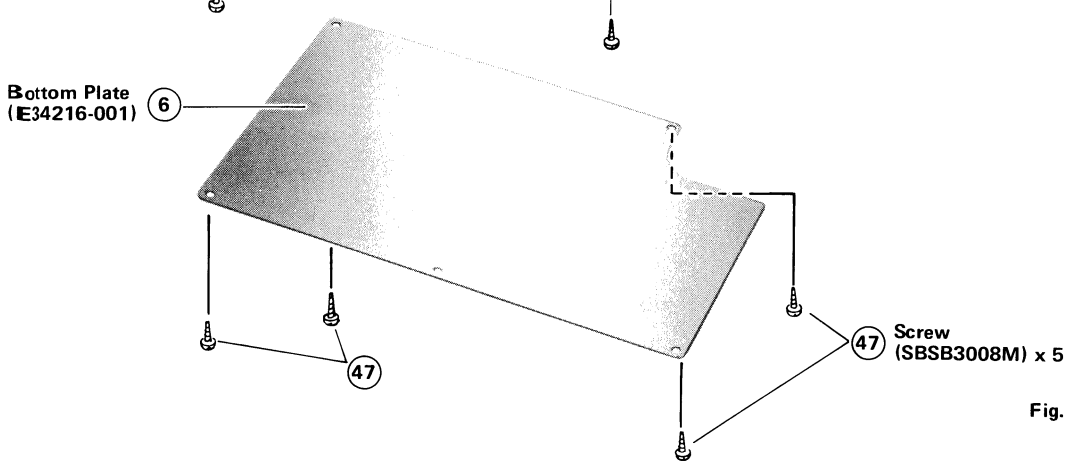


Fig. 3

3. Main Parts Location and Part Numbers

Top View

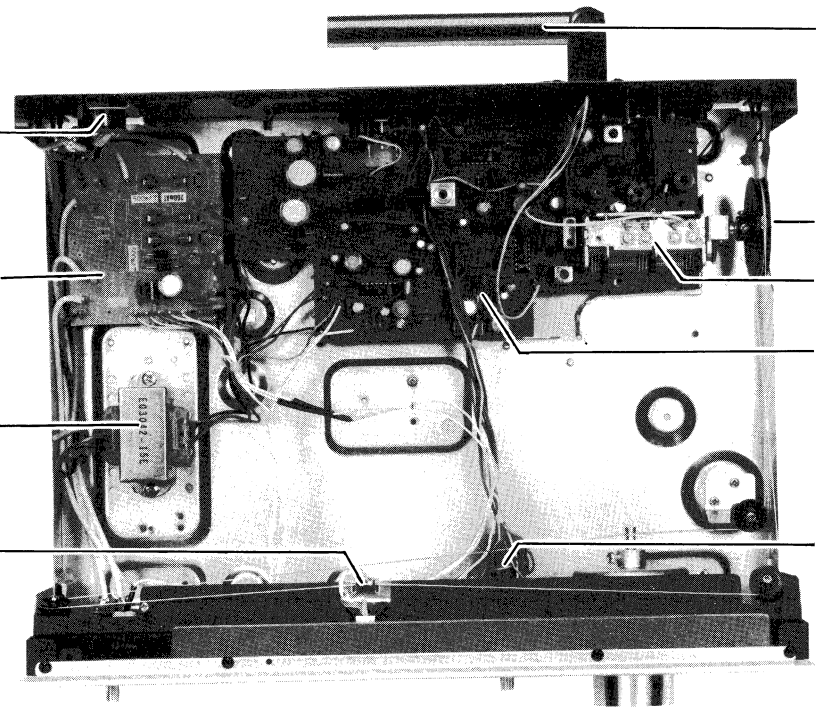


Fig. 4

Bottom View

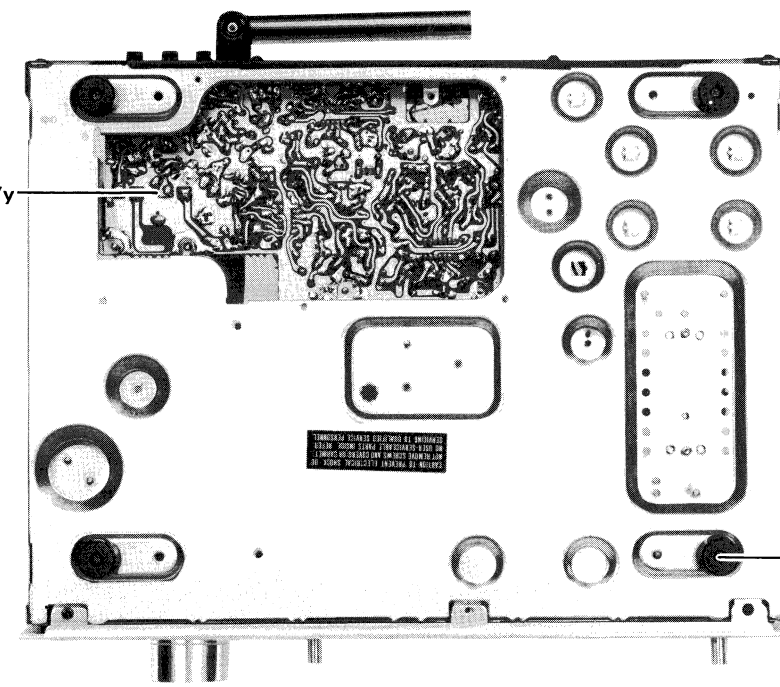


Fig. 5

4. Dial Stringing and Tuning Knob Fitting Procedures

4-(1) Dial Stringing

Turn the tuning capacitor so that its plates are completely closed (maximum capacity) first. Then start dial stringing following the diagram below.

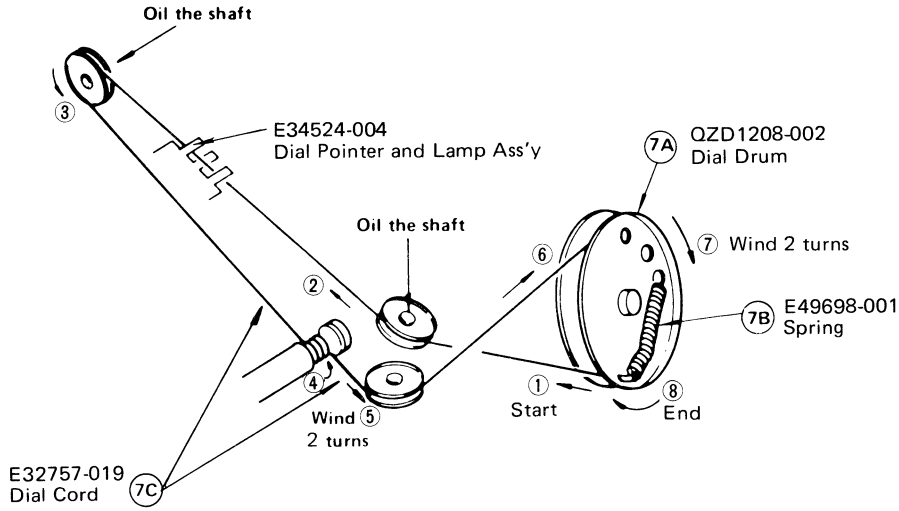


Fig. 6

Note: When replacing the circuit boards, fix the dial drum in the recess of the chassis base so that the string will not come loose.

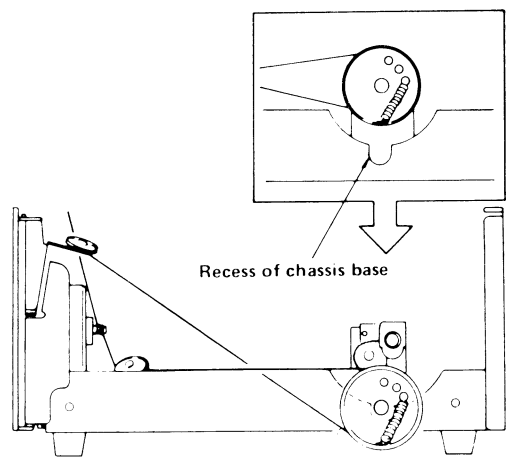


Fig. 7

4-(2) Tuning Knob Fitting

The tuning knob used in this set is designed to have a reduced eccentricity. Torque transmission is through knurled ring engagement and the center of rotation is maintained by the three ridges clamping the shaft. To fit the tuning knob, first press in lightly by turning lightly to permit the ridges to fall into the recesses in the shaft. When you feel that the shaft and knob are completely engaged, press the knob straight in the direction of the axis of the shaft. Be careful not to injure the ridges by pressing the knob in forcibly, as this will increase the eccentricity of the knob.

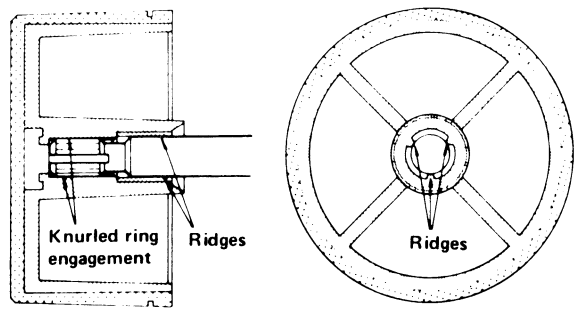


Fig. 8

5. Exploded View and Part Numbers

5-(1) Front Panel

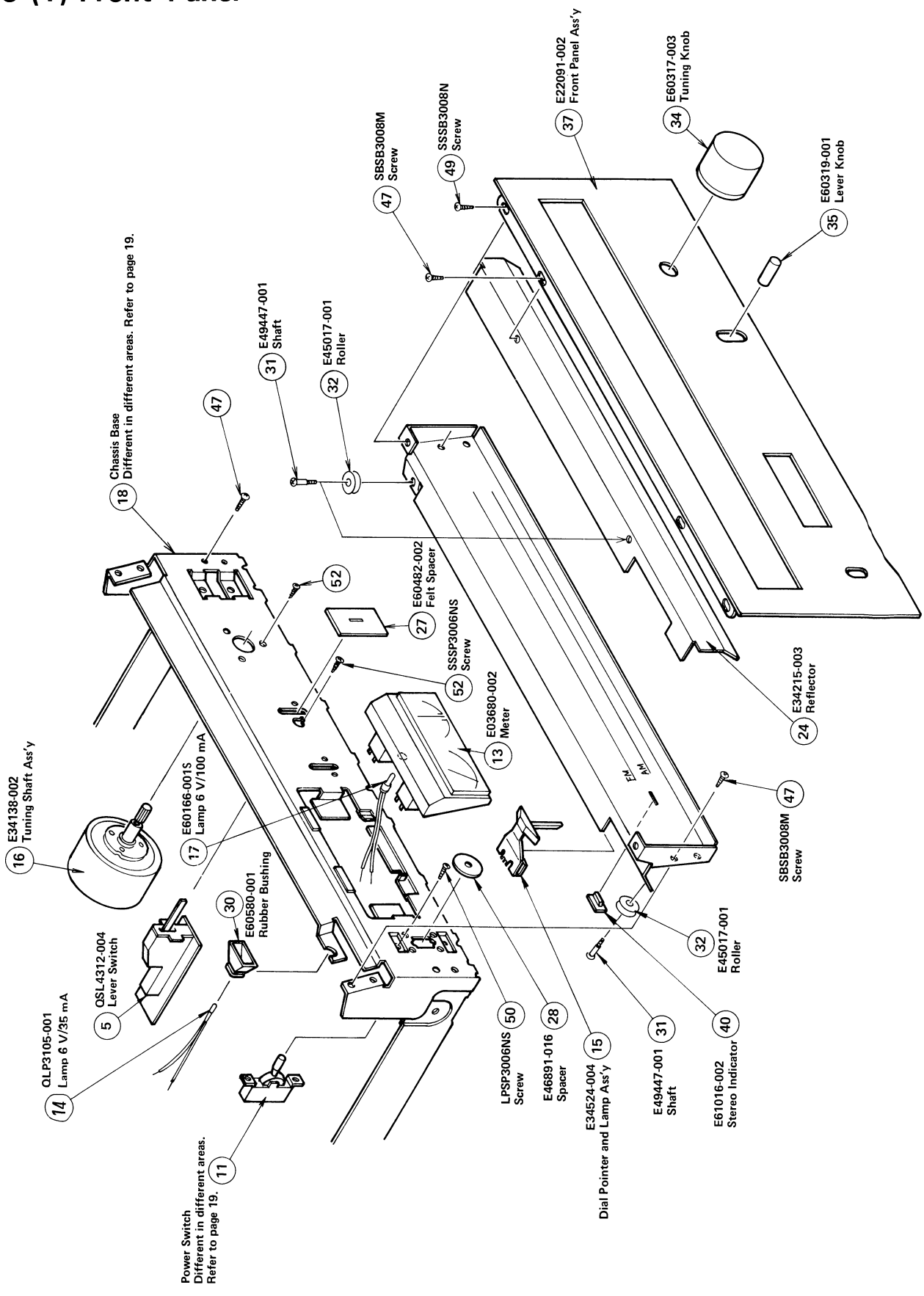


Fig. 9

5-(2) Rear Panel

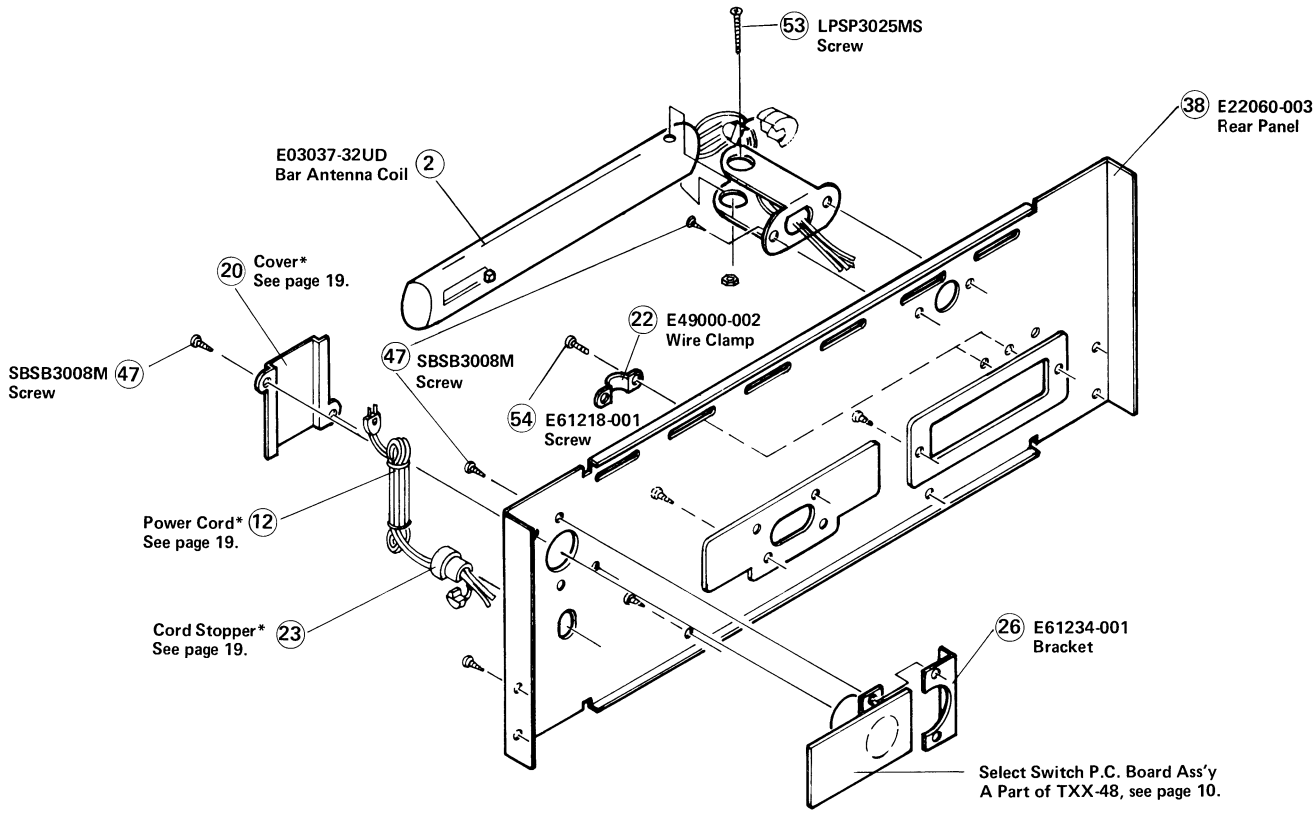
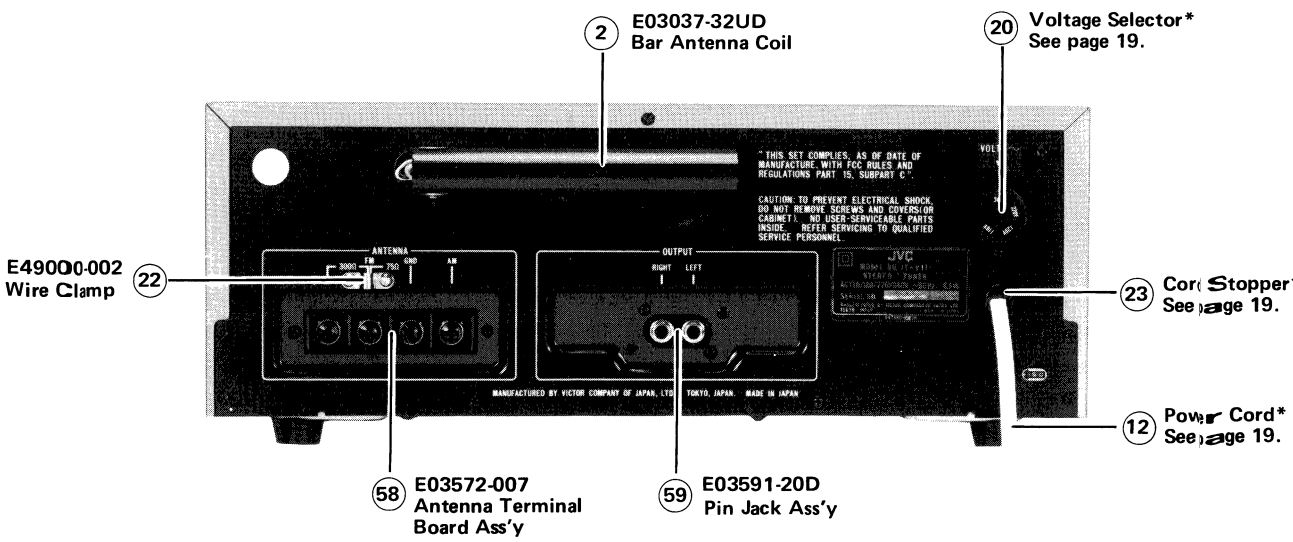


Fig. 10



* Different in different areas.

Fig. 11

6. FM/AM Tuner Alignment Procedure

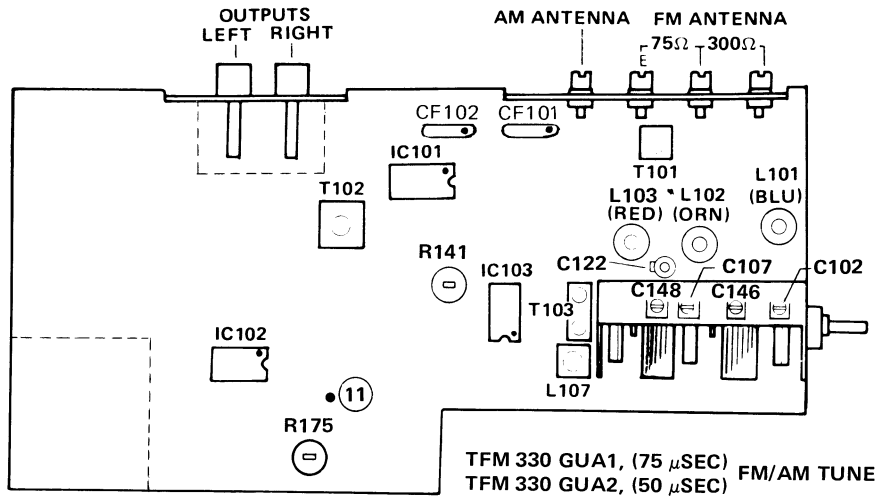


Fig. 12

6-(1) FM Section

Alignment Locations for FM/AM Tuner Section

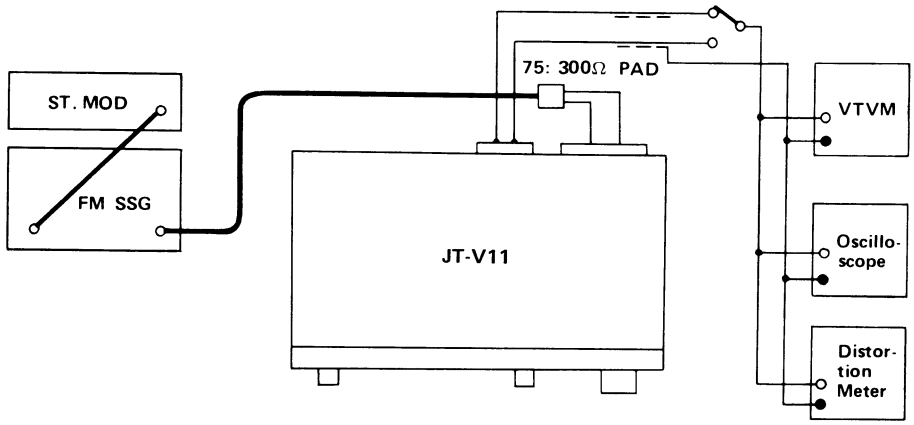


Fig. 13

Discriminator, Center Meter & Distortion

1. Connect an RF generator, 1 kHz modulation and 75 kHz deviation, to the antenna terminals on the rear panel through a dummy antenna.
2. Connect an oscilloscope, distortion meter and VTVM to the OUTPUT Jacks on the rear panel.
3. Tune to a frequency where there is no broadcasting.
4. Adjust the bottom core of T102 so that the center meter indicates "0" (zero).
5. Set the generator to 98 MHz.
6. Set the dial pointer to 98 MHz.
7. Adjust the top core of T102 so that the distortion is minimized at a value less than 0.4 %.

Tracking and Sensitivity

Low Frequency

1. Connect an RF generator to the antenna terminals on the rear panel through a dummy antenna.
2. Set the RF generator to 88 MHz, a modulation of 1 kHz and a deviation of 75 kHz, to provide an input of 2 μV.
3. Connect a VTVM and an oscilloscope to the OUTPUT Jacks on the rear panel.
4. Set the dial pointer to 88 MHz.
5. Adjust three coils L103, L102 and L101 in the tuning gang to maximize the output.

High Frequnecy

6. Set the RF generator to 108 MHz, a modulation of 1 kHz and a deviation of 75 kHz, to provide an input of 2 μV.
7. Set the dial pointer to 108 MHz.
8. Adjust the FM trimmers C122, C107 and C102 in the tuning gang to maximize the output.
9. Repeat these high and low frequency adjustments alternately until maximum sensitivity is obtained.

Muting Level

1. Connect a VTVM and an oscilloscope to the OUTPUT Jacks.
2. Set the RF generator to 108 MHz, a modulation of 1 kHz and a deviation of 75 kHz, to provide an input of 10 μV.
3. Turn R141 clockwise and remember the point at which the muting ceases operating.
4. Turn R141 counterclockwise slightly so that the output level drops by 1 dB.
5. Attenuate the output of the RF generator to 2 dB from 10 μV of Step 2 and check that the muting is still operating.

Multiplex

1. Set a stereo signal generator as follows: Modulation frequency 1,000 Hz, Deviation pilot 7.5 kHz, Main and Sub. 67.5 kHz. Connect its output to an RF generator.
2. Connect the RF generator to the antenna terminals through a dummy antenna.
3. Connect a VTVM, an oscilloscope and a distortion meter to the OUTPUT Jacks.
4. Set the RF generator to 98 MHz and an output of 1 mV.
5. Set the dial pointer to 98 MHz.
6. Connect a frequency counter to Tab No. 11.
7. Switch off the pilot signal of the stereo modulator.
8. Adjust R175 so that the frequency counter indicates 76 kHz (± 0.1 kHz).
9. If no frequency counter is available, there is another simplified method. Tune exactly to a stereo broadcast. Then turn R175 in either direction to find the range in which the stereo indicator lights up and fix R175 at the center of the range.

Note: Keep the MODE selector switch at AUTO position during this adjustment procedure of stereo separation.

6-(2) AM Section

Tracking and Sensitivity

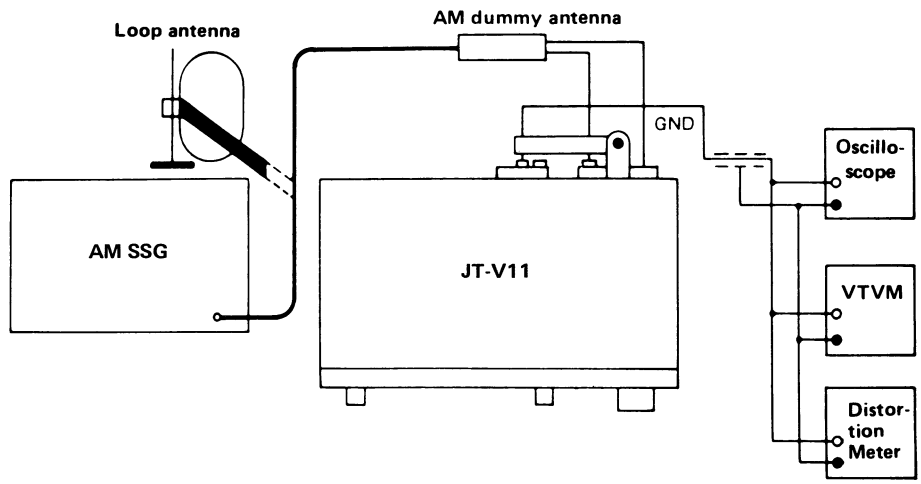


Fig. 14

Low Frequency

1. Connect an RF generator to the antenna terminals on the rear panel, set this to 600 kHz with 30 % modulation at 400 Hz.
2. Connect an AC VTVM and an oscilloscope to OUTPUT Jacks on the rear panel.
3. Set the dial pointer to 600 kHz.
4. Adjust Osc. transformer L107 and the ferrite bar antenna to maximize the output signal.

High Frequency

5. Set the RF generator to 1,400 kHz with 30 % modulation at 400 Hz.
6. Set the dial pointer to 1,400 kHz.
7. Adjust the trimmers C148 and C146 in the AM tuning gang so that the output signal is maximized.
8. Repeat these high and low frequency adjustments alternately until maximum sensitivity is obtained.

7. Printed Circuit Board Ass'y and Parts List

7-(1) TXX-48E (F or G) FM/AM Tuner and Switch P.C. Board Ass'y

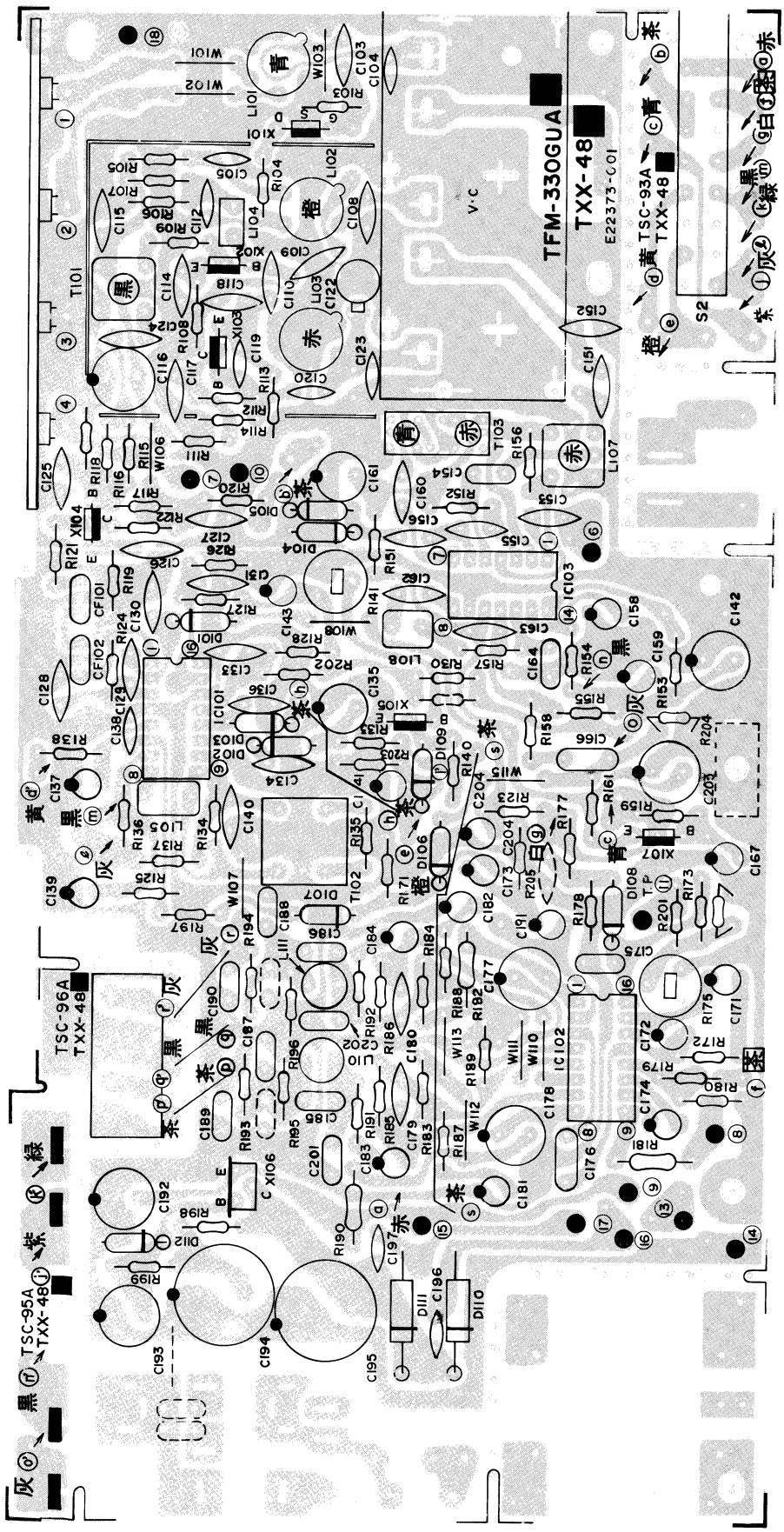


Fig. 15

The number of TXX-48 P.C. Board Ass'y varies according to the area employed.

TXX-48E	U.S.A., Canada, U.S. Military Market and Other Countries.	TXX-48F	Australia and Europe
		TXX-48G	U.K.

Transistors

Item No.	Part Number	Rating		Description	Maker
		Pc	fT		
X101	2SK55D	IDSS:14 mA	NF:3.5 dB	F.E.T.	Hitachi
X102	2SC535 (B,C)	100 mW	700 MHz	Silicon	"
X103	2SC1342 (B,C)	"	250 MHz	"	"
X104	2SC461 (C)	200 mW	230 MHz	"	"
X105	2SC458 (C)	250 mW	"	"	"
X106	2SD325 (D,E)	10W	8 MHz	"	Sanyo
X107	2SC458 (C)	250 mW	230 MHz	"	Hitachi

Integrated Circuits

Item No.	Part Number	Rating	Description	Maker
IC101	HA1137W		FM IF Amp. & DET	Hitachi
IC102	HA1196		MPX	"
IC103	HA1151		AM RF IF	"

Diodes

Item No.	Part Number	Rating	Description	Maker
D101	1S2473		Silicon	Toyo Dengu
D102	1S2473		"	"
D103	1S188FM		Germanium	Sanyo
D104	1S2473		Silicon	Toyo Dengu
D105	1S2473		"	"
D106	1S2473		Silicon	Toyo Dengu
D107	1S2473		"	"
D108	1S2473		"	"
D109	1S2473		"	"
D110	SIB01-02		"	Kyodo Denki
D111	SIB01-02		"	"
D112	WZ-130		Zener Diode 13 V	JRC

Coils and Transformers

Item No.	Part Number	Rating	Description
L101	E03477-024		RF Coil (Blue)
L102	E03477-35		" (Orange)
L103	E03477-026		" (Red)
L104	E03522-2R2KY	2.2 μH	Choke Coil
L105	E03522-220K	22 μH	"
L107	E03079-29		AM OSC Coil (Red)
L108	E03522-391KY	390 μH	Choke Coil
L110	E03566-103		"
L111	E03566-103		"
T101	E03078-39		FM I.F. Transformer
T102	E03134-020		FM DET. Transformer
T103	E03613-002		AM I.F. Transformer

Capacitors

Item No.	Part Number	Rating		Description
C103	QCS31HJ-101	100 pF	50 V	Ceramic
C104	QCS31HJ-180	18 pF	"	"
C105	QCF31HP-103	0.01 μF	"	"
C108	QCS31HJ-180	18 pF	"	"
C109	QCS11HJ-100	10 pF	"	"
C110	QCS31HJ-4R0	4 pF	"	"
C112	QCS31HJ-101	100 pF	"	"
C114	QCF31HP-103	0.01 μF	"	"
C115	QCF31HP-103	"	"	"
C116	QEW51CA-107	100 μF	16 V	Electrolytic

Capacitors

Item No.	Part Number	Rating		Description
C117	QCF31HP-103	0.01 μF	50 V	Ceramic
C118	QCT25CH-100	10 pF	"	"
C119	QCT25CH-220	22 pF	"	"
C120	QCT25CH-7R0	7 pF	"	"
C122	QAT3001-005	10 pF	"	Trimmer
C123	QCT25RH-220	22 pF	"	Ceramic
C124	QCF31HP-223	0.022 μF	"	"
C125	QCS31HJ-470	47 pF	"	"
C126	QCF31HP-223	0.022 μF	"	"
C127	QCF31HP-223	"	"	"
C128	QCZ0107-473	0.047 μF	25 V	Ceramic
C129	QCF31HP-223	0.022 μF	50 V	"
C130	QCZ0107-473	0.047 μF	25 V	"
C131	QCF31HP-223	0.022 μF	50 V	"
C133	QCF31HP-223	"	"	"
C134	QCF31HP-223	"	"	"
C135	QEW51CA-476	47 μF	16 V	Electrolytic
C136	QCF31HP-223	0.022 μF	50 V	Ceramic
C137	QEW41EA-475	4.7 μF	25 V	Electrolytic
C138	QCS31HJ-820	82 pF	50 V	Ceramic
C139	QEW41HA-105	1 μF	"	Electrolytic
C140	QCF31HP-223	0.022 μF	"	Ceramic
C141	QEW51HA-225	2.2μF	50V	Electrolytic
C142	QEW40JA-227	220 μF	6.3 V	"
C143	QEW51HA-474	0.47 μF	50 V	Ceramic
C151	QCS31HJ-331	330 pF	"	"
C152	QCS31HJ-150	15 pF	"	"
C153	QCF31HP-223	0.022 μF	"	"
C154	QFM31HK-103	0.01 μF	"	Mylar
C155	QCF31HP-223	0.022 μF	"	Ceramic
C156	QCF31HP-223	0.022 μF	"	"
C158	QEW41HA-105	1 μF	"	Electrolytic
C159	QEW51EA-475	4.7 μF	25 V	"
C160	QCF31HP-223	0.022 μF	50 V	Ceramic
C161	QEW51CA-476	47 μF	16 V	Electrolytic
C162	QCS31HJ-331	330 pF	50 V	Ceramic
C163	QCF31HP-223	0.022 μF	"	"
C164	QCY41HK-102	0.001 μF	"	"
C166	QFM31HK-333	0.033 μF	"	"
C167	QEW51CA-107	100 μF	16 V	Electrolytic
C171	QEB51EM-335	3.3 μF	25 V	L.L.C. Electrolytic
C172	QEB51HM-225	2.2μF	25V	"
C173	QEW51EA-475	4.7 μF	25 V	Electrolytic
C174	QEB51HM-224	0.22 μF	50 V	L.L.C. Electrolytic
C175	QFP31HJ-361	360 pF	"	P.P Copacpor
C176	QFM31HK-473	0.047 μF	"	Mylar
C177	QEW51CA-107	100 μF	16 V	Electrolytic
C178	QEW51CA-107	100 μF	"	"
C179	QCS31HJ-471	470 pF	50 V	Ceramic
C180	QCS31HJ-471	"	"	"
C181	QEW51CA-106	10 μF	16 V	Electrolytic
C182	QEW51CA-106	"	"	"
C183	QEB51HM-225	0.22μF	50 V	L.L.C. Electrolytic
C184	QEB51HM-225	"	"	"
C185	QFM31HJ-682	6800 pF	"	Mylar
C186	QFM31HJ-682	"	"	"
C187	QFM31HJ-822	8200 pF	"	"
C188	QFM31HJ-822	"	"	"
C189	QFM31HJ-682	6800 pF	"	"
C190	QFM31HJ-682	"	"	"
C191	QEW51HA-225	2.2μF	50V	Electrolytic
C192	QEW41CA-107	100 μF	16 V	Electrolytic

Capacitors

Item No.	Part Number	Rating		Description
C193	QEW41CA-107	100 μF	16V	Electrolytic
C194	QEW41EA-477	470 μF	25 V	"
C195	QEW41VA-108	1000 μF	35 V	"
C196	QCF31HP-103	0.01 μF	50 V	Ceramic
C197	QCF31HP-103	"	"	"
C201	QFM31HJ-103	"	"	Mylar
C202	QFM31HJ-103	"	"	"
C203	QEW51CA-107	100μF	16 V	Electrolytic
C204	QEW41HA-474	0.47 μF	50 V	"

Resistors

Item No.	Part Number	Rating		Description
R103	QRD181J-105	1 MΩ	1/8 W	Carbon
R104	QRD181J-470	47 Ω	"	"
R105	QRD181J-101	100 Ω	"	"
R106	QRD181J-472	4.7 kΩ	"	"
R107	QRD181J-223	22 kΩ	"	"
R108	QRD181J-102	1 kΩ	"	"
R109	QRD181J-101	100 Ω	"	"
R111	QRD181J-561	560 Ω	"	"
R112	QRD181J-103	10 kΩ	"	"
R113	QRD181J-222	2.2 kΩ	"	"
R114	QRD181J-103	10 kΩ	"	"
R115	QRD181J-121	120Ω	"	"
R116	QRD181J-122	1.2 kΩ	"	"
R117	QRD181J-153	15 kΩ	"	"
R118	QRD181J-472	4.7 kΩ	"	"
R119	QRD181J-102	1 kΩ	"	"
R120	QRD181J-121	120 Ω	"	"
R121	QRD181J-271	270 Ω	"	"
R122	QRD181J-331	330 Ω	"	"
R123	QRD181J-334	330 kΩ	"	"
R124	QRD181J-331	330 Ω	"	"
R125	QRD181J-154	150 kΩ	"	"
R126	QRD181J-104	100 kΩ	"	"
R127	QRD181J-104	"	"	"
R128	QRD181J-103	10 kΩ	"	"
R130	QRD181J-153	15 kΩ	"	"
R133	QRD126J-560	56Ω	1/2W	"
R134	QRD181J-562	5.6 kΩ	1/8 W	"
R135	QRD181J-362	3.6 kΩ	"	"
R136	QRD181J-221	220 Ω	"	"
R137	QRD181J-682	6.8 kΩ	"	"
R138	QRD181J-123	12 kΩ	"	"
R140	QRD181J-123	"	"	"
R141	QVP4A0B-473	47 kΩ		Variable
R151	QRD181J-151	150 Ω	1/8 W	Carbon
R152	QRD181J-472	4.7 kΩ	"	"
R153	QRD181J-152	1.5 kΩ	"	"
R154	QRD181J-562	5.6 kΩ	"	"
R155	QRD181J-153	15 kΩ	"	"
R157	QRD181J-331	330 Ω	"	"
R158	QRD181J-273	27kΩ	"	"
R159	QRD181J-103	10kΩ	"	"
R161	QRD181J-473	47kΩ	"	"
R171	QRD181J-104	100 kΩ	"	"
R172	QRD181J-102	1 kΩ	"	"
R173	QRD181J-223	22 kΩ	"	"
R175	QVP4A0B-103	10 kΩ		Variable
R177	QRD181J-103	10 kΩ	1/8 W	Carbon
R178	QRD181J-103	10 kΩ	"	"
R179	QRD181J-104	100 kΩ	"	"

Resistors

Item No.	Part Number	Rating		Description
R180	QRD181J-333	33 kΩ	1/8 W	Carbon
R181	QRD126J-221	220 Ω	1/2W	UNF Carbon
R182	QRD126J-220	22 Ω	1/2 W	UNF. Carbon
R183	QRD181J-303	30 kΩ	1/8 W	Carbon
R184	QRD181J-303	"	"	"
R185	QRD181J-473	47 kΩ	"	"
R186	QRD181J-473	"	"	"
R187	QRD181J-822	8.2kΩ	"	"
R188	QRD181J-822	"	"	"
R189	QRD181J-124	120kΩ	"	"
R190	QRD126J-100	10 Ω	1/2 W	UNF. Carbon
R191	QRD181J-152	1.5 kΩ	1/8 W	Carbon
R192	QRD181J-152	"	"	"
R193	QRD181J-222	2.2 kΩ	"	"
R194	QRD181J-222	"	"	"
R195	QRD181J-473	47 kΩ	"	"
R196	QRD181J-473	"	"	"
R197	QRD181J-103	10kΩ	"	"
R198	QRD181J-102	1 kΩ	"	"
R199	QRD181J-122	1.2 kΩ	"	"
R201	QRD181J-104	100 kΩ	"	"
R202	QRD181J-122	1.2 kΩ	"	"
R203	QRD181J-473	47kΩ	"	"
R204	QRD181J-563	56kΩ	"	"

Others

Item No.	Part Number	Rating	Description
CF101, 102	E03357-006		Ceramic Filter
	E03591-20D		Pin Jack
S2	QSL4312-004		Lever Switch
	E03572-007C		ANT. Terminal

De-emphasis Network

Category / Area	P.C. Board Ass'y	De-emphasis	R156	C803	C187 C188	C189 C190	C179 C180
U.S.A., Canada U.S. Military Market and Other Areas	TXX-48E	75 μsec	Not used	100 μF/35 V	6800pF	2700pF	1200pF
Australia and Europe	TXX-48F	50 μsec	560 Ω	220 μF/35 V	8200pF	6800 pF	470pF
U.K.	TXX-48G	50 μsec	Not used	220 μF/35 V	8200pF	6800 pF	470pF

7-(2) TXX-59A (BBS, C, or D) Power Supply and Voltage Select Switch P.C.Board Ass'y

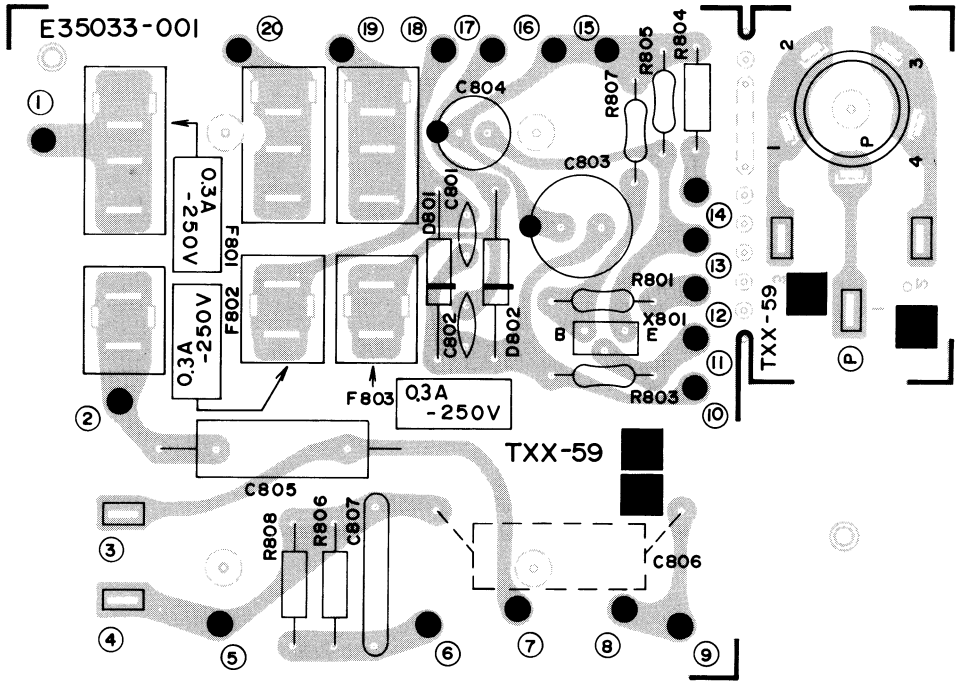


Fig. 16

Transistor

Item No.	Part Number	Rating		Description	Maker
		Pc	fT		
X801	2SD325 (E)	10 W	8 MHz	Silicon	Sanyo

Diodes

Item No.	Part Number	Rating	Description	Maker
D801	SiB01-02		Silicon	Kyodo Denki
D802	SiB01-02		"	"

Capacitors

Item No.	Part Number	Rating		Description
C801	QCF31HP-103	0.01 μF	50 V	Ceramic
C802	QCF31HP-103	"	"	"
C803	QEW51VA-107	100 μF	35 V	Electrolytic
C804	QEW51AA-107	"	10 V	"
*C805	See page 19.	0.01 μF	1000 V	Metallized Mylar

Resistors

Item No.	Part Number	Rating		Description
R801	QRD141J-182	1.8 kΩ	1/4 W	Carbon
R803	QRD141J-332	3.3 kΩ	"	"
R804	QRD126J-100	10 Ω	1/2 W	UNF. Carbon
R805	QRD141J-332	3.3 kΩ	1/4 W	Carbon
*R806	See page 19.	4.7 MΩ	1/2 W	Composition
R807	QRD141J-272	2.7 kΩ	1/4 W	Carbon
*R808	See page 19.	4.7 MΩ	1/2 W	Composition

Others

Item No.	Part Number	Rating		Description
*F801	See page 19.	0.3 A	250 V	Fuse (Primary)
*F802	See page 19.	0.5 A	"	Fuse (Secondary)
*F803	See page 19.	"	"	Fuse (")
S4	QSR0074-001	2 A	250 V	Line Voltage Selector

*Different in different areas. Refer to page 19.

8. Packing Materials

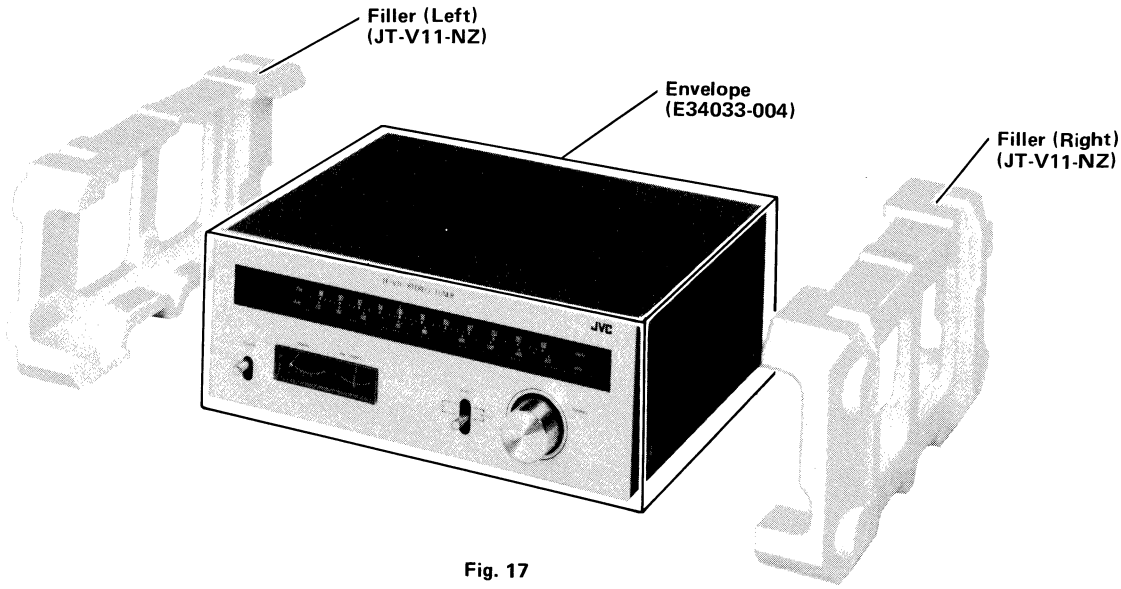


Fig. 17

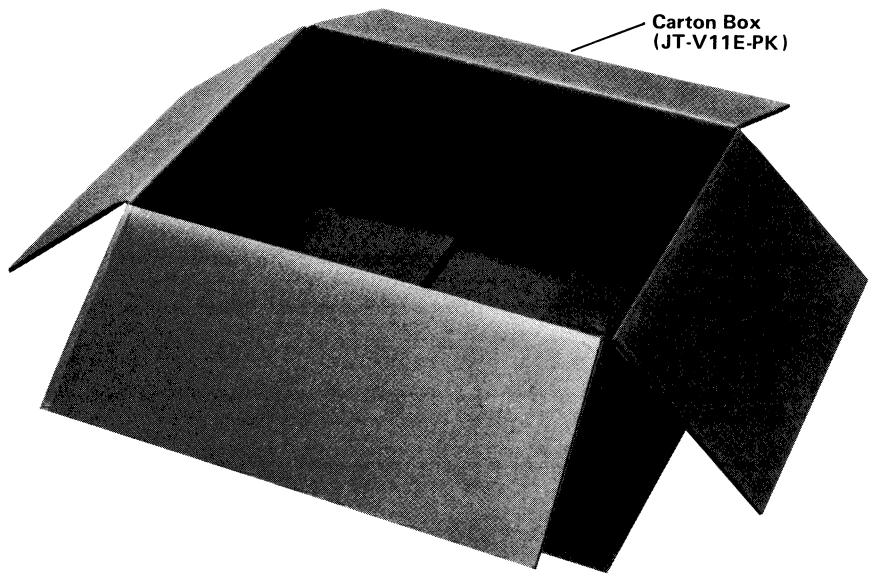


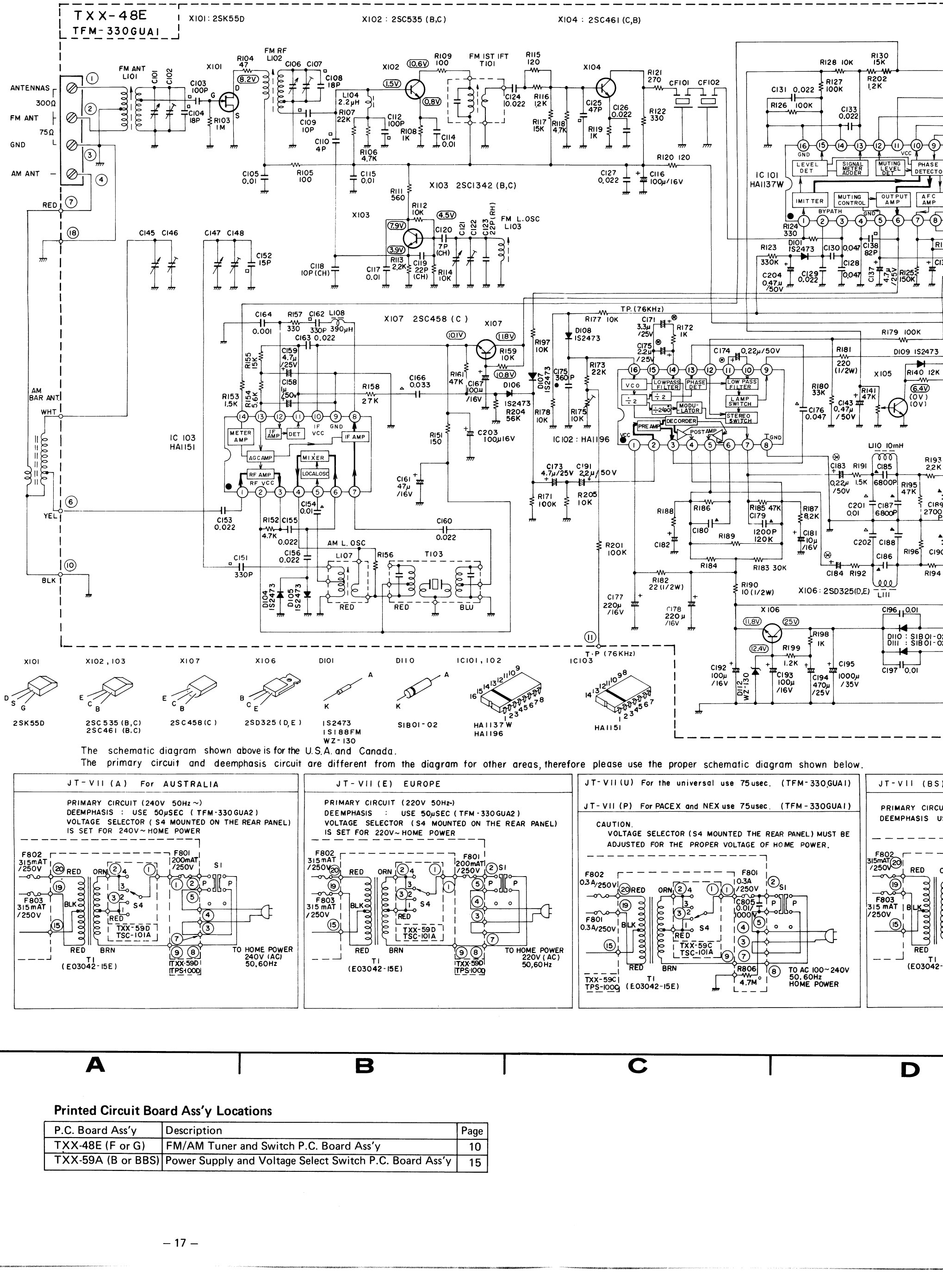
Fig. 18

9. Accessories List

Part Number	Description	Q'ty
*E30580-605A	Instruction Book (for U.S.A. & Canada only)	1
E64207-002	Envelope	1
See page 48.	Warranty Card	1
E03614-002	FM Antenna	1
E03479-001	Signal Cord	1

*Different in different areas. Refer to page 19.

10. JT-V11 Schematic Diagram (for U.S.A and Canada)



The schematic diagram shown above is for the U.S.A. and Canada.
The primary circuit and deemphasis circuit are different from the diagram for other areas, therefore please use the proper schematic diagram shown below.

JT-V11 (A) For AUSTRALIA

PRIMARY CIRCUIT (240V 50Hz ~)
DEEMPHASIS : USE 50μSEC (TFM-330GUA2)
VOLTAGE SELECTOR (S4 MOUNTED ON THE REAR PANEL) IS SET FOR 240V~ HOME POWER

JT-V11 (E) EUROPE

PRIMARY CIRCUIT (220V 50Hz~)
DEEMPHASIS : USE 50μSEC (TFM-330GUA2)
VOLTAGE SELECTOR (S4 MOUNTED ON THE REAR PANEL) IS SET FOR 220V~ HOME POWER

JT-V11 (U) For the universal use 75usec. (TFM-330GUAI)

JT-V11 (P) For PACEX and NEX use 75usec. (TFM-330GUAI)

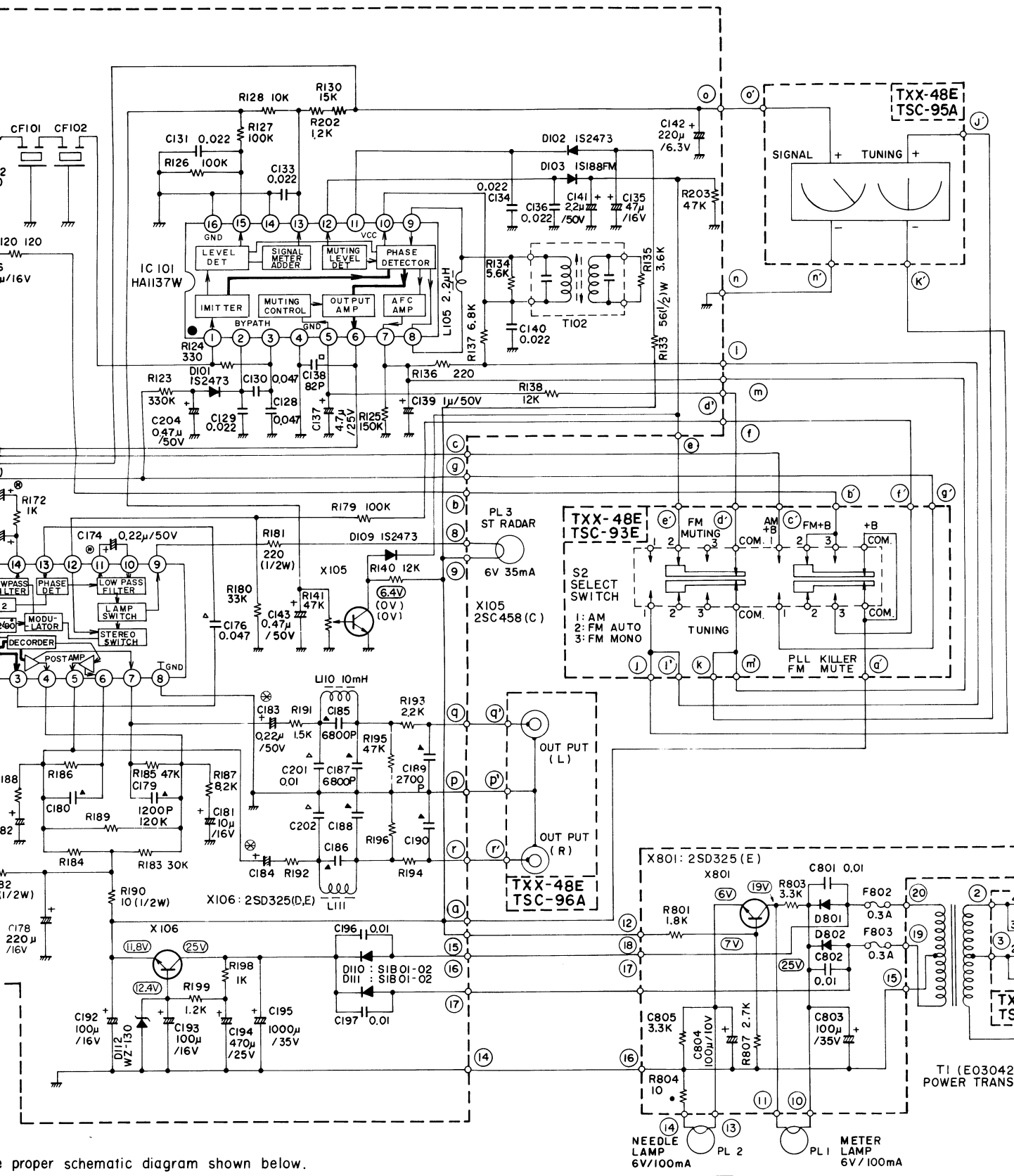
CAUTION.
VOLTAGE SELECTOR (S4 MOUNTED THE REAR PANEL) MUST BE ADJUSTED FOR THE PROPER VOLTAGE OF HOME POWER.

JT-V11 (BS)

PRIMARY CIRCU
DEEMPHASIS US

Printed Circuit Board Ass'y Locations

P.C. Board Ass'y	Description	Page
TXX-48E (F or G)	FM/AM Tuner and Switch P.C. Board Ass'y	10
TXX-59A (B or BBS)	Power Supply and Voltage Select Switch P.C. Board Ass'y	15



	IC101		IC102		IC103
	⬭	〔〕	⬭	〔〕	
1	2.0	2.0	11.5	11.5	1.0
2	2.0	2.0	3.0	3.0	8.6
3	2.0	2.0	7.5	7.5	4.9
4	0	0	9.1	9.1	8.6
5	1.6	0	9.1	9.1	3.6
6	5.2	5.2	4.3	4.3	1.3
7	5.5	5.2	4.2	4.2	2.1
8	5.5	5.5	0	0	4.8
9	5.5	5.5	11.8	0.7	0
10	5.5	5.5	0	0	9.1
11	10.2	10.2	2.3	2.3	1.5
12	4.3	4.3	0.7	0.7	0.7
13	0	2.6	2.2	2.2	1.3
14	0	0	2.4	2.4	0
15	4.9	4.4	2.4	2.4	
16	0	0	3.0	3.0	

NOTE

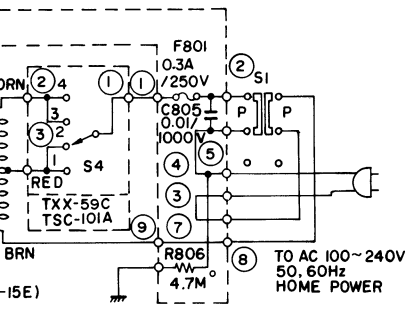
NON MARK RESISTOR	1/8 W	CARBON (±5%)
✳ 〃 〃	1/4 W	〃 〃
● 〃 〃	1/2 W	UNFLAMABLE (±5%)
○ 〃 〃	1/2 W	COMPOSITION (±10%)
NON MARK CAPACITOR	50 V	CERAMIC (YZ)
□ 〃 〃	50 V	〃 (SL, ±5%)
■ 〃 〃	25 V	
△ 〃 〃	50 V	MYLAR (±10%)
▲ 〃 〃	50 V	〃 (±5%)
⊬ 〃 〃	E. CAPACITOR	
⊛ 〃 〃	E. CAPA. LLC	(±20%)
● 〃 〃	POLYSTYROL	(±5%)
◎ 〃 〃	N, P, E, CAP,	

e proper schematic diagram shown below.

he universal use 75usec. (TFM-330GUA1)

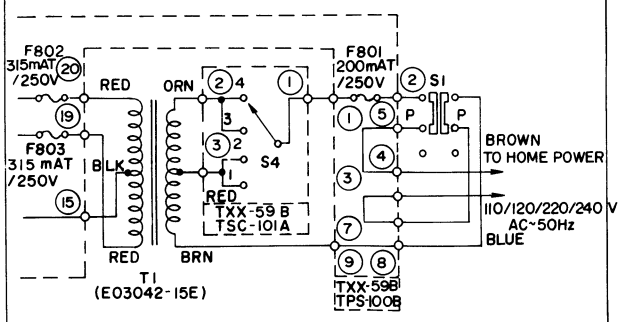
ACEX and NEX use 75usec. (TFM-330GUA1)

ECTOR (S4 MOUNTED THE REAR PANEL) MUST BE
R THE PROPER VOLTAGE OF HOME POWER.



JT-VII (BS) For United Kingdom

PRIMARY CIRCUIT (SELECTABLE AC 110/120/220/240V~50Hz)
DEEMPHASIS USE 50μSEC (TFM-330GUA3)



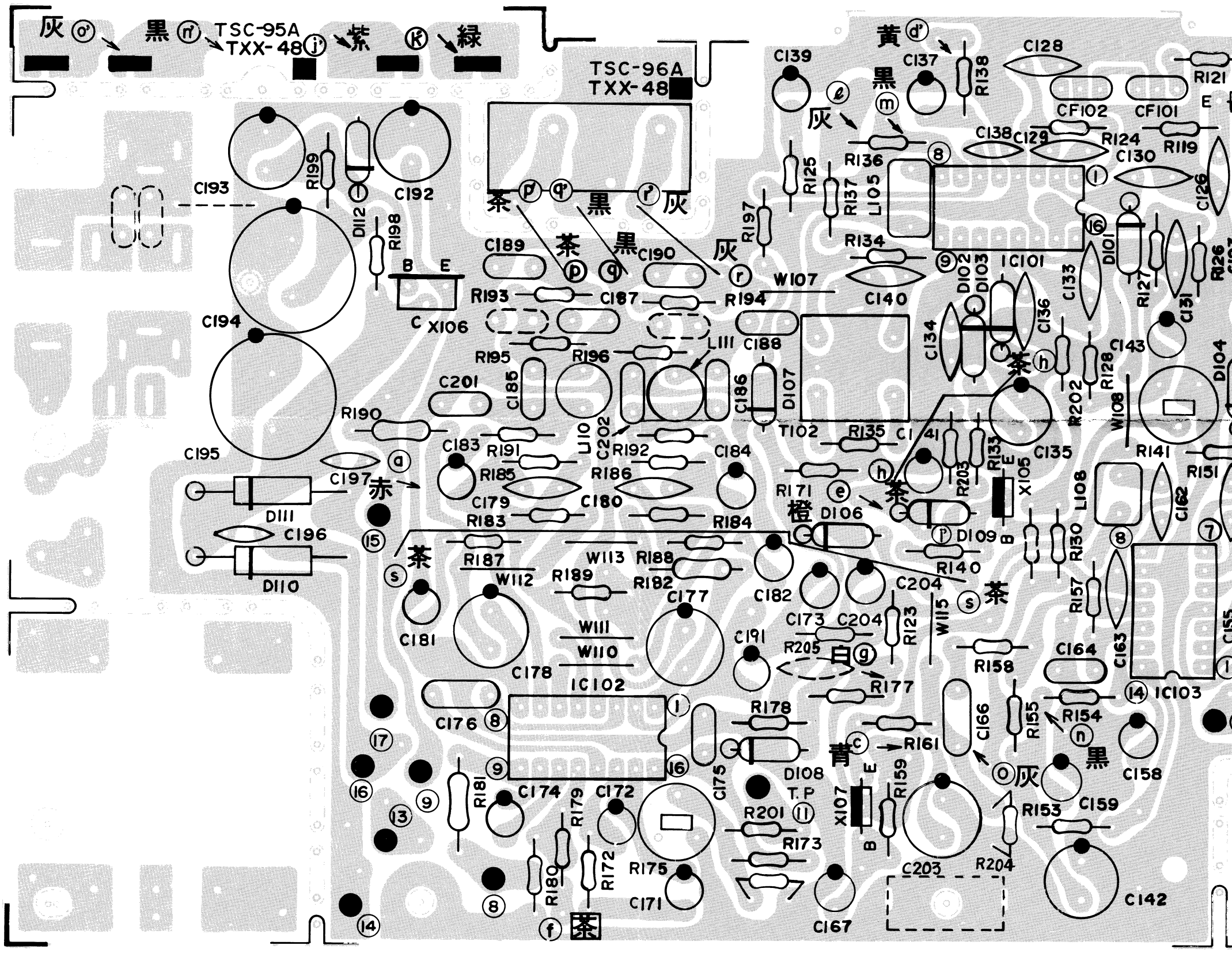
NOTE.

1) FOR ALL VOLTAGE MEASUREMENTS LINE VOLTAGE = 120V AC
2) ⬭ INDICATES DC VOLTAGE MEASURED WITH DC VTVM TO CHASSIS WITH NO SIGNAL INPUT (MUTING ON)
3) ( ) INDICATES DC VOLTAGE WITH 1mV RF INPUT
4) ( ) INDICATES DC VOLTAGE WITH 1mV RF INPUT 75KHz DEVIATION IN STEREO MODE

Category / Area	P.C. Board Ass'y	De-emphasis	R156	C803	C187 C188	C189 C190	C179 C180
U.S.A., Canada, U.S. Military Market and Other Areas	TFM-330 GUA1 TXX-48E	75μsec	Unused	100μF 35V	6800p ▲	2700p ▲	1200p ▲
Australia and Europe	TFM-330 GUA2 TXX-48F	50μsec	560Ω	220μF 35V	8200p ▲	6800p ▲	470p □
U.K.	TFM-330 GUA3 TXX-48G	50μsec	Unused	220μF 35V	8200p ▲	6800p ▲	470p □

Fig. 19

TXX-48E (F or G) FM/AM Tuner and Switch P.C. Board Ass'y


灰 o'
黒 n'
TSC-95A
TXX-48
j'
紫
k'
緑
TSC-96A
TXX-48
黄 d'
C139
C137
R138
C128
R121
E
灰 ℓ
黒 m
CF102
CF101
C138
C129
R124
R119
C130
R136
8
1
16
9
R125
R137
L105
R197
R134
C140
W107
C193
R199
D112
C192
R198
茶 p'
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黒
r'
灰
C189
茶 p
黒 q
C190
灰 r
R193
C187
R194
B E
C X106
C194
C189
R195
R196
L111
C188
C201
C185
C186
D107
T102
R190
C202
L110
R192
C183
R191
C184
C195
C197
赤 a
R185
R186
R171
e
橙
D106
C179
C180
R183
R184
D111
C196
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R188
D109
R140
D110
W112
R189
R182
C177
C182
C204
C181
W111
W110
C173
C204
R123
W115
C191
R205
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R177
C178
IC102
R158
C164
C163
C176
8
1
R178
C166
R155
R154
14
IC103
17
16
9
13
C175
C174
C172
R179
R181
D108
T.P
11
R201
X107
R159
C158
C159
R153
R173
R175
R180
R172
C171
C167
C203
R204
C142
f 茶
C135
R141
R151
C162
R130
L108
R157
C155
R133
R203
X105
C134
C136
C133
D101
R127
C131
R126
C143
R128
R202
W108
D104
C141
R135
T102
C188
C186
D107
C185
C201
C202
L110
L111
R195
R196
C193
R199
D112
R198
C192
C194
C195
C197
D111
C196
D110
C181
C178
C176
C174
C172
C175
R181
R179
R180
R172
R175
C171
C167
C191
C173
C204
R123
W115
R205
R177
R178
R161
D108
R201
R173
C203
R204
C166
R155
R154
C158
C159
R153
C142
C164
C163
R158
C135
R141
R151
C162
R130
L108
R157
C155
R133
R203
X105
C134
C136
C133
D101
R127
C131
R126
C143
R128
R202
W108
D104
C141
R135
T102
C188
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D107
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L111
R195
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R186
R171
D106
C179
C180
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R184
R187
W113
R188
D109
R140
W112
R189
R182
C177
C182
C204
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W111
W110
C173
C204
R123
W115
C191
R205
R177
C178
IC102
R158
C164
C163
C176
R178
C166
R155
R154
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R161
D108
R201
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R197
R134
C140
W107

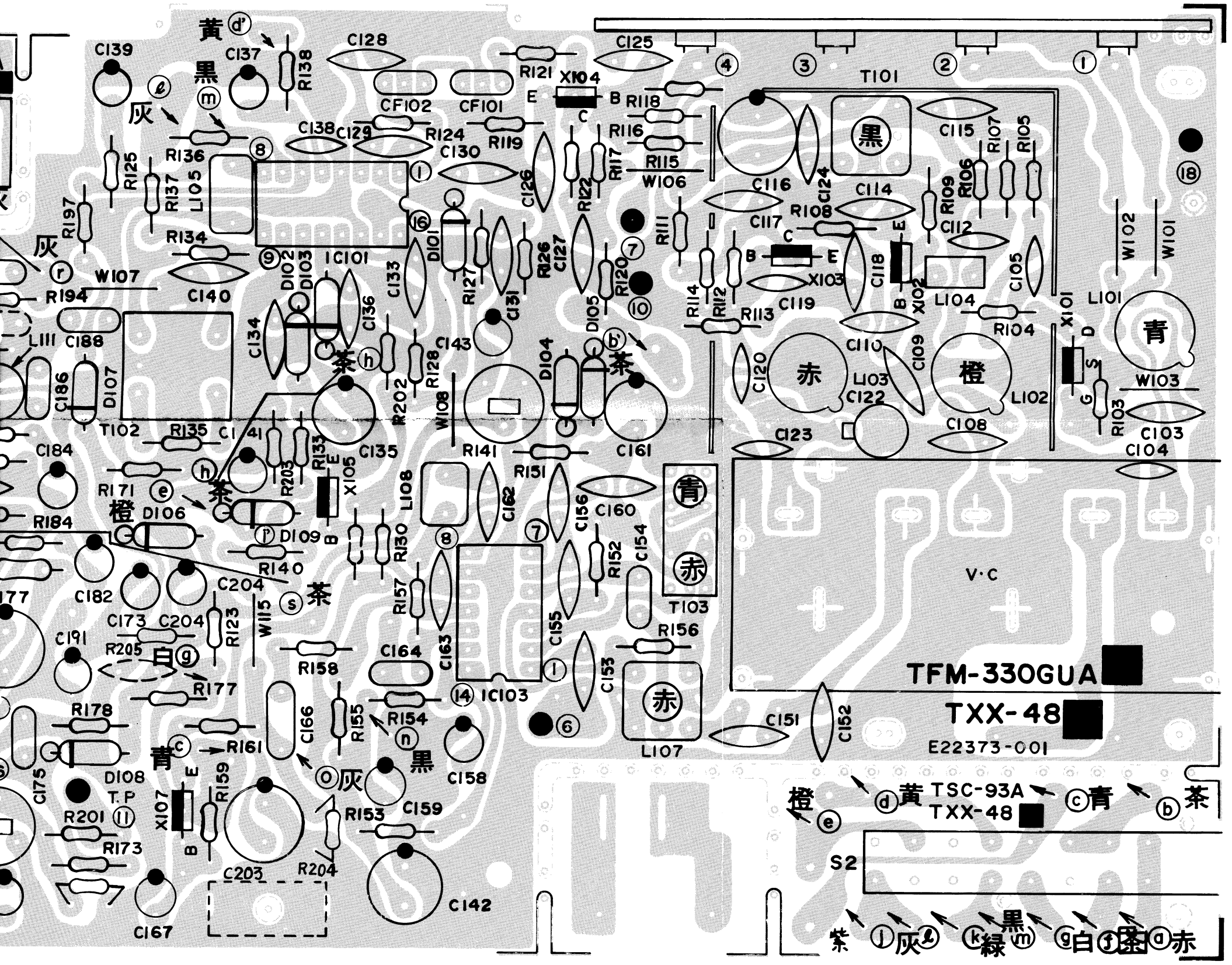
TFM-330GUA
TXX-48
E22373-001
TSC-93A
TXX-48
V·C
T101
T102
T103
L107
IC101
IC103
S2
黒
赤
橙
青
茶
黄
灰
白
緑
紫

Fig. 20

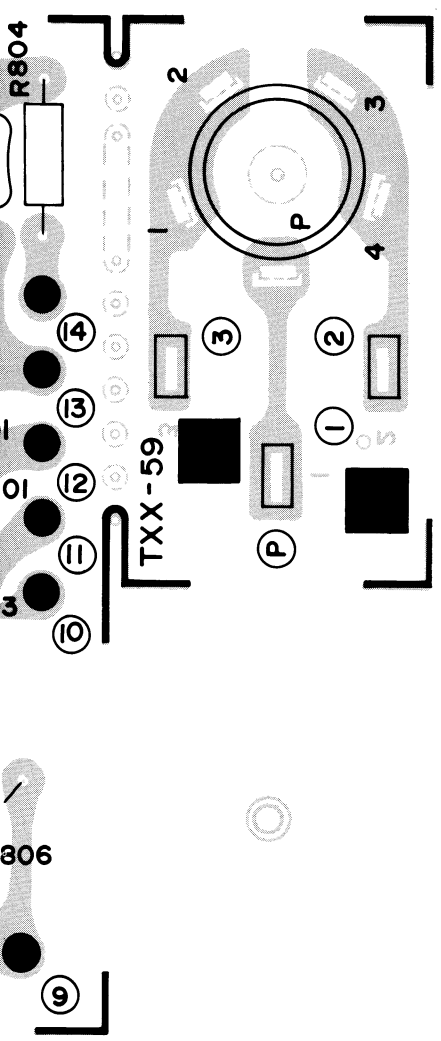
TXX-59

Fig. 21

11. Parts List with Specified Numbers for Designated Areas

Page	Item No.	Description	For U.S.A. and Canada	For Europe Sweden, Norway Finland, Switzerland Denmark and Australia	For U.K.	For U.S. Military Market and Other Countries
4	3	Power Transformer	E03042-15F	E03042-15E	E03042-15EBS	E03042-15E
4	6	FM/AM Tuner and Switch P.C. Board Ass'y ( ) : De-emphasis	TXX-48E (75 μsec)	TXX-48F (50 μsec)	TXX-48G (50 μsec)	TXX-48E (75 μ SEC : U.S. military market) TXX - 48F (50 μ SEC : Other Countries)
4	9	Power P.C. Board Ass'y	TXX-59A	TXX-59D	TXX-59BBS	TXX-59C
15	C805	Metallized Mylar (0.01 μF/1000V)	QFH53AM-103	—	—	QFH53AM-103
15	R806	Composition (4.7 MΩ/1/2 W)	QRC121K-475E	—	—	QRC121K-475E
15	R808	Composition (4.7 MΩ/1/2 W)	QRC121K-475E	—	—	—
15	F801	Fuse (Primary)	QMF61U2-R30 (0.3 A)	QMF51A2-R20 (200 mAT)	QMF51A2-R20 (200 mAT)	QMF61U2-R30 (0.3 A)
15	F802	Fuse (Secondary)	QMF61U2-R30 (300 mA)	QMF51A2-R315 (315 mAT)	QMF51A2-R315 (315 mAT)	QMF61U2-R30 (300 mA)
15	F803	Fuse (Secondary)	QMF61U2-R30 (300 mA)	QMF51A2-R315 (315 mAT)	QMF51A2-R315 (315 mAT)	QMF61U2-R30 (300 mA)
4	10	Voltage Select P.C. Board Ass'y (TXX-59)	To set 120 V	To set 220 V To set 240 V (Australia)	To set 240 V	To set 110, 120, 220, 240 V each proper voltage
7	20	Cover (for TXX-59)	E60931-001	—	—	—
7	21	Screw	SBSB3008M	—	—	—
7	12	Power Cord	QMP1200-244	QMP3910-244 (Europe) QMP2500-200 (Australia)	QMP9017-007BS	QMP1200-244
6	11	Power Switch	QSL1135-012	QSL2235-103	QSL2235-103BS	QSL2235-103
16		Instruction Book	E30580-605A	E30580-605A	E30580-605ABS	E30580-605A
16		Warranty Card	BT20020C (U.S.A.) BT20025 (Canada)	BT20029 (Australia)	BT20013B	BT20014B (PACEX only)
10	23A	Cord Stopper	QHS3876-162	QHS3876-162	QHS3876-162	QHS3876-162
6	18	Chassis Base	E10104-001	E10104-001	E10104-002	E10104-001